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Patent Plaque



JP60242041A2: REINFORCING METHOD FOR FLEXIBLE GRAPHITE SHEET

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Country

JP Japan

Kind

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KUREHA CHEM IND CO LTD
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Issued/Filed Dates

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Application Number

JP1984000071659

IPC Class

B29C 67/14; C01B 31/04; C04B 41/83; H01M 8/02; C08J 5/24; B29L 7/00;

Abstract

Purpose: To improve strength and gas permeability, by a method wherein a flexible graphite sheet is impregnated with a specified liquid thermosetting resin under a reduced pressure, and the resin is hardened by heating.

Constitution: The flexible graphite sheet preferably degassed is placed in a liquid thermosetting resin having a carbonization rate of not lower than 20%, preferably, a phenolic resin adhesive or an epoxy resin adhesive, then the ambient pressure is reduced, and upon the starting of gasification of low boiling point components in the liquid, the pressure is returned to a normal pressure, then the pressure is again reduced, and these operations are preferably repeated several times to impregnate the sheet with the resin in an amount of 0.5W20wt% based on the sheet. Thereafter, the sheet is taken out, the liquid adhered to the surface of the sheet is removed, and the resin is hardened by a hot press to reinforce the sheet. **USE:** Heat-resistant packings, separators for fuel cells or the like.

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CHEMABS 104(10)073772D

Foreign References

(No patents reference this one)

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Reinforced flexible graphite sheet

Patent Number: ☐ US4729910
Publication date: 1988-03-08
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Applicant(s): KUREHA CHEMICAL IND CO LTD (JP)
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EC Classification: C04B35/536, H01M4/96, H01M8/02C2C
Equivalents: CA1272080, ☐ DE3512867, ☐ FR2562549, ☐ GB2157277, JP1810985C,
JP4002091B

Abstract

Disclosed herein is a reinforced flexible graphite sheet uniformly containing a thermosetting resin prepared by impregnating a flexible graphite sheet with a liquid thermosetting resin having the carbonizing yield of more than 20% under a reduced pressure and thereafter, heat-setting the resin, an amount of the resin impregnated being in the range of 0.5 to 20% by weight based on the flexible graphite sheet.

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